

Datasheet for 200-901-Y86**ATG5 Antibody****Overview**

Description:	Anti-ATG5 (CHICKEN) Antibody - 200-901-Y86
Item No.:	200-901-Y86
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Chicken

Product Details

Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein APG1. ATG5, another member of the autophagy protein family, forms a conjugate with ATG12; this conjugate has a ubiquitin-protein ligase (E3)-like activity for protein lipidation in autophagy. This conjugate also associates with innate immune response proteins such as RIG-I and VISA (also known as IPS-1), inhibiting type I interferon production and permitting viral replication in host cells.
Synonyms:	ATG5 Antibody, ASP, APG5, APG5L, hAPG5, APG5-LIKE
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	ATG5
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ATG5 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 16 amino acid synthetic peptide from near the N-terminus of human ATG5. The immunogen is located within the first 50 amino acids of ATG5.
Purity/Specificity:	Anti-ATG5 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Three isoforms of ATG5 are known to exist; this ATG5 antibody will only detect the longest isoform. Predicted species reactivity based on immunogen sequence: Rat (100%), Bovine: (94%), Pig: (94%).
Relevant Links:	• UniProtKB - A9UGY9 • GeneID - 9474 • NCBI - EAW48415

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-ATG5 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 32 kDa in Western Blots of specific cell lysates and tissues. Positive controls used Mouse and Human Spleen Tissues, Daudi and HeLa Cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IHC:	2.5 µg/mL
WB:	1 - 2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

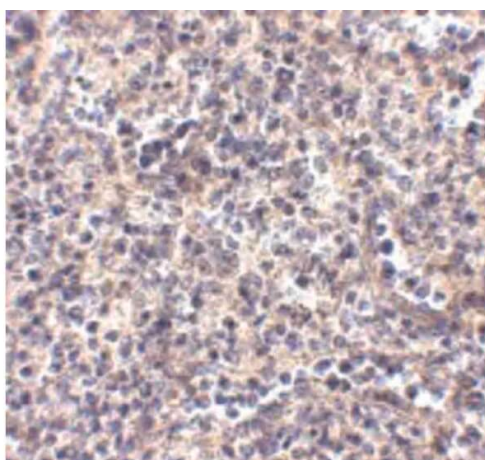
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

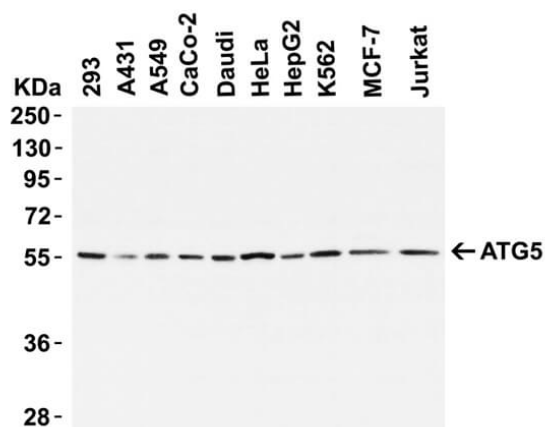
Expiration: Expiration date is one (1) year from date of receipt.

Images



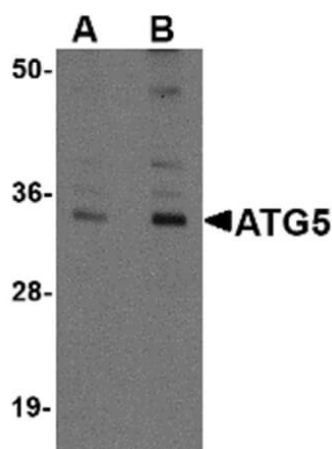
Immunohistochemistry

Immunohistochemistry of ATG5 antibody. Tissue: human spleen tissue. Fixation: formalin fixed paraffin embedded fixed with formaldehyde and blocked with 10% serum for 1 h at RT. Antigen retrieval: heat mediation with a citrate buffer (pH6). Primary antibody: ATG5 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase goat anti-chicken secondary antibody at 1:250. Localization: ATG5 is a membrane protein. Staining: hematoxylin counterstain.



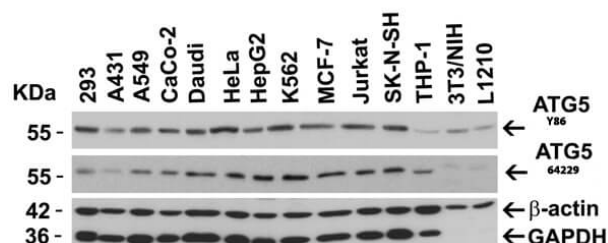
Western Blot

Western Blot of Anti-ATG5 Antibody. Lysates: Human Cell Lines. Loading: 15µg of lysates per lane. Primary Antibody: Anti-ATG (2µg/mL), 1hr at RT in 5% NFDm/TBST. Secondary Antibody: Goat anti-chicken IgG HRP conjugate at 1:10,000. Expect: ~32kDa.



Western Blot

Western Blot of Chicken Anti-ATG5 Antibody. Loading: 15µg Mouse Spleen per lane. Primary Antibody: Lane A: 1µg/mL. Lane B: 2µg/mL. Secondary Antibody: goat anti-chicken IgG HRP at 1:10,000. Expect: ~32kDa.



Western Blot

Western Blot of Chicken Anti-ATG5 Antibody. Loading: 15 µg of lysates per lane. Primary Antibody: ATG5 (p/n 200-901-Y68) (2µg/mL), ATG5 (64229) (2µg/mL), beta-actin (1µg/mL), and GAPDH (0.02µg/mL), 1hr at RT in 5% NFDM/TBST. Secondary Antibody: Goat anti-chicken or goat anti-mouse IgG HRP conjugate at 1:10,000 and 1:5,000 dilution, respectively.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.